



# Heat Recovery Unit

## ALFA 85

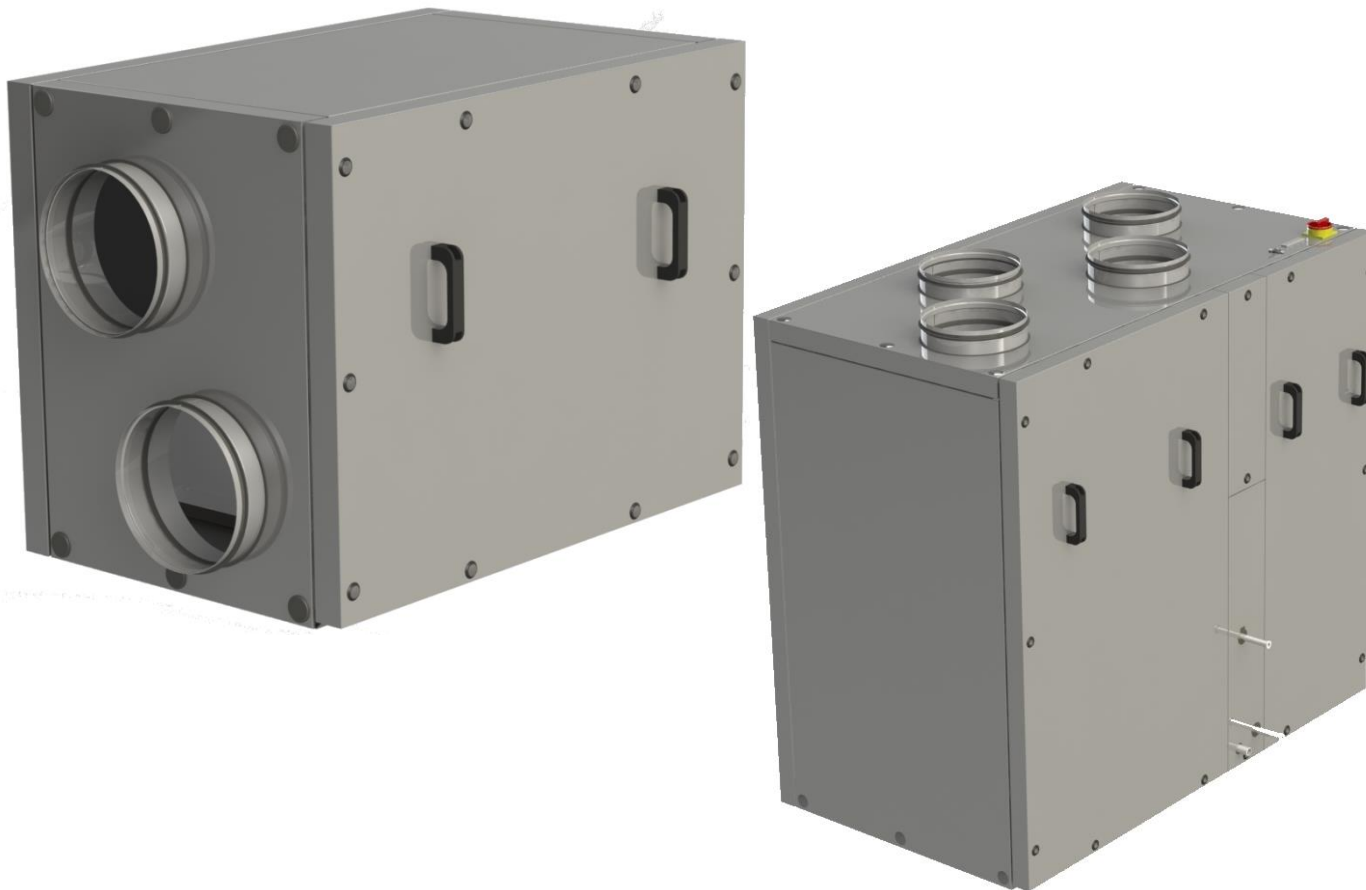
Product presentation - 2V V

# ALFA 85



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# ALFA 85



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# ALFA 85 - Applications

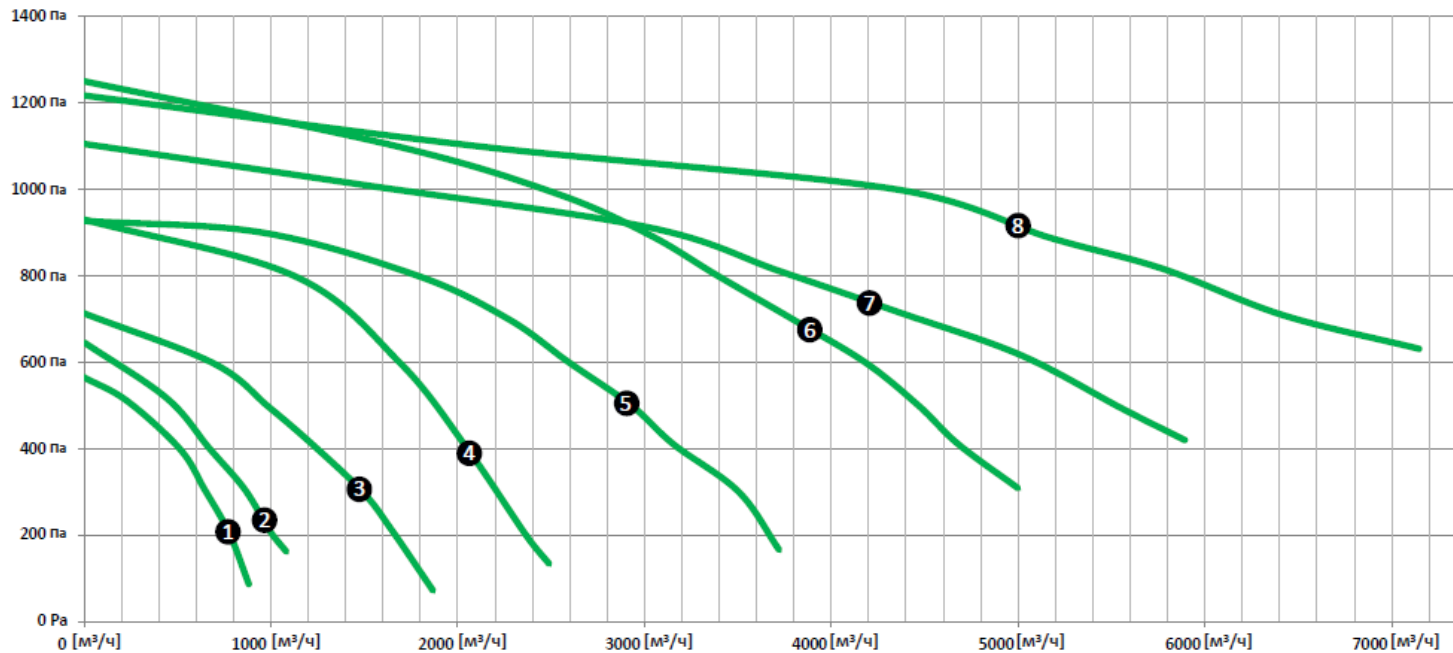
- Restaurants
- Bars
- Hotels
- Offices
- Sport centres



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# ALFA 85 – Air flow range

- Vertical – 700, 1000, 1500, 2000, 3000, 4500, 5500, 7500 m<sup>3</sup>/h
- Upper – 700, 1000, 1500, 2000, 3000, 4500 m<sup>3</sup>/h



① HR85-070EC-RS-V/U

③ HR85-150EC-RS-V/U

⑤ HR85-300EC-RS-V/U

⑦ HR85-550EC-RS-V

② HR85-100EC-RS-V/U

④ HR85-200EC-RS-V/U

⑥ HR85-450EC-RS-V/U

⑧ HR85-750EC-RS-V

# ALFA 85 – Types and versions

- Vertical and Upper
- Integrated afterheater/cooler – electric, hot water (heating only), water change-over, DX coil
- Left and right service access

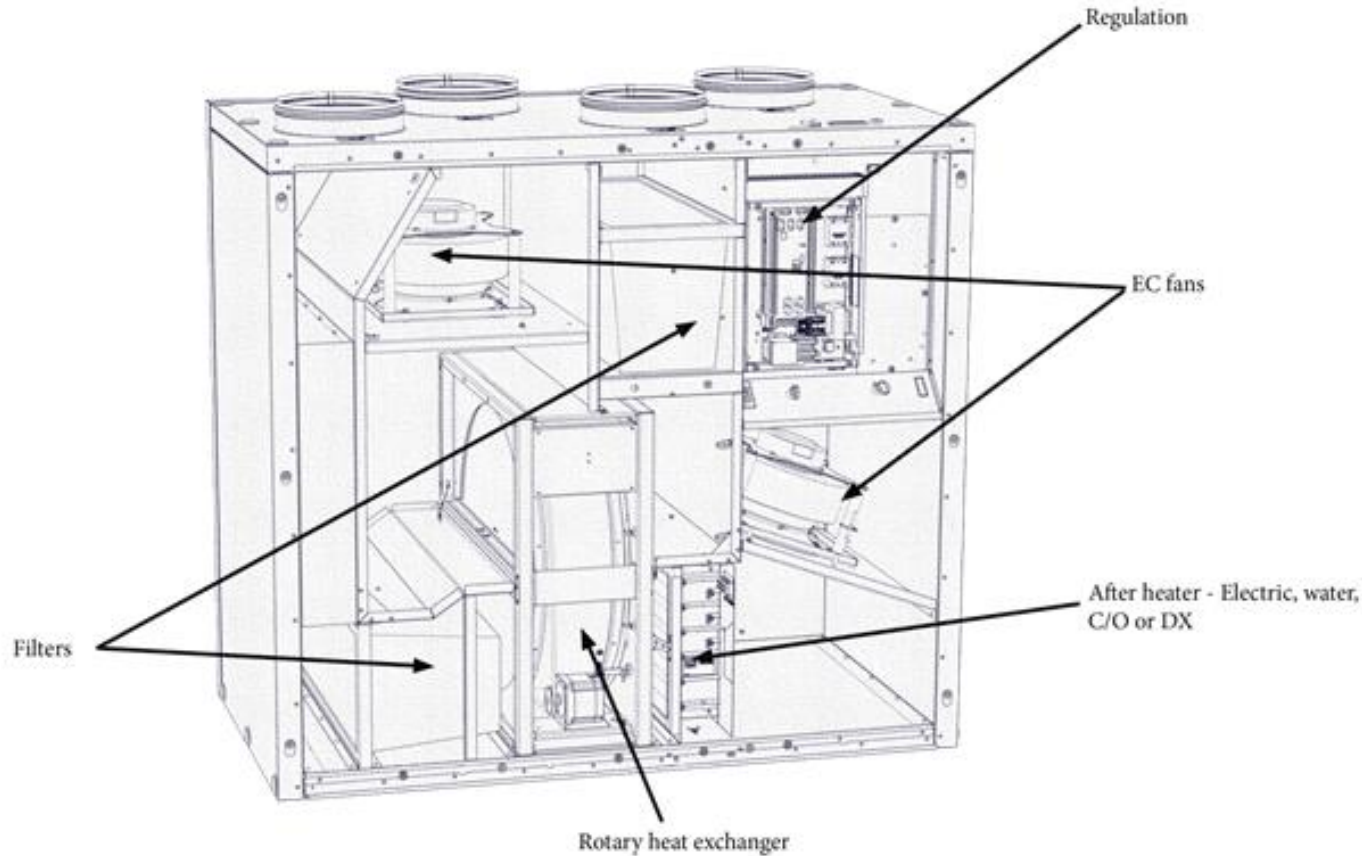


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# ALFA 85 – Main components

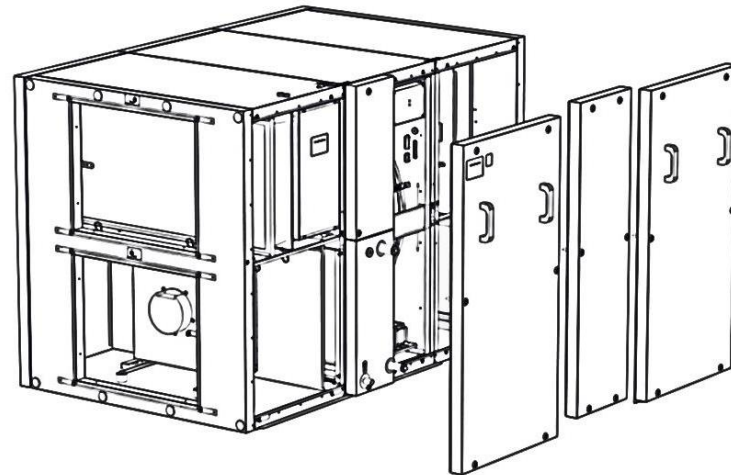
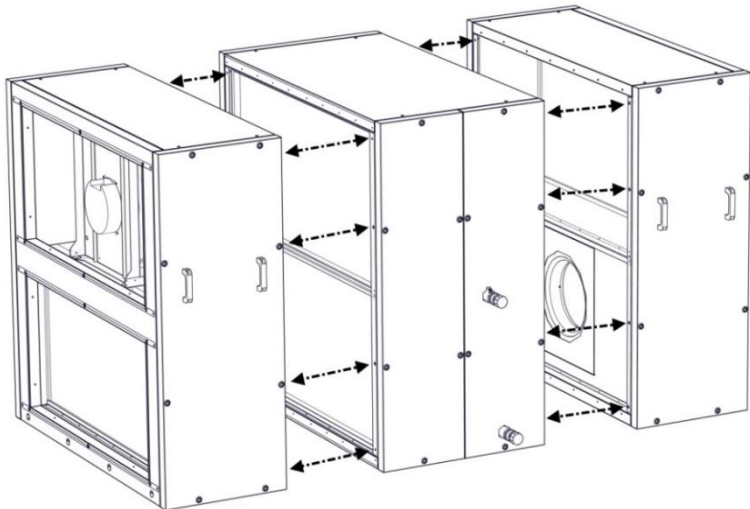
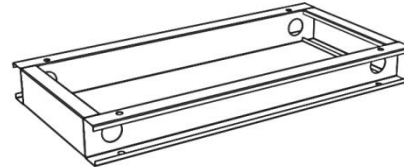


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# ALFA 85 – Construction

- Compact (up to 2000 m<sup>3</sup>/h)
- Modular (from 3000 m<sup>3</sup>/h)
  - Modular units connected with screws
  - One base for whole modular unit
- Segmentally divided access doors with handles (max. weight 25 kg)

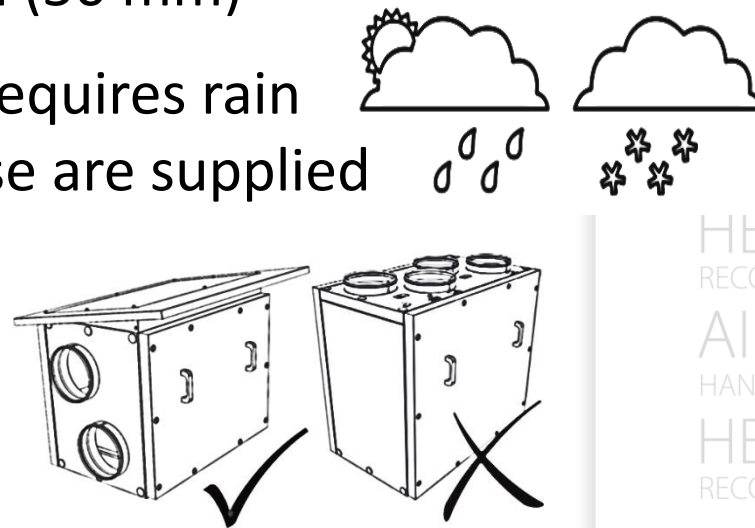


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# ALFA 85 – Outdoor installation

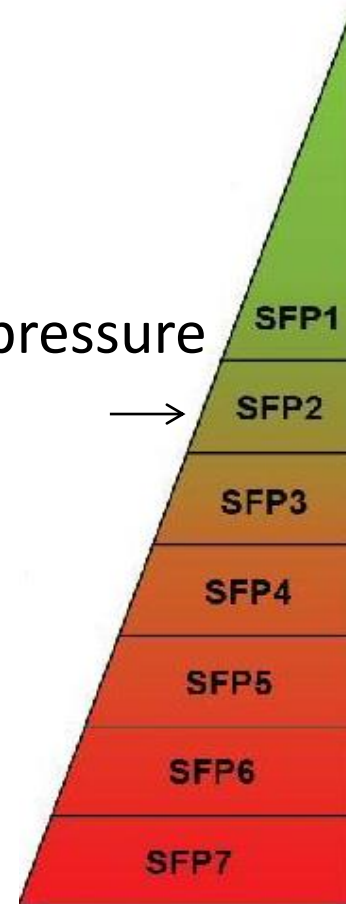
- Outdoor installation down to -20 °C
- Construction without thermal bridges
- Double corrosion protection (galvanized steel + powder coating)
- Insulated sandwich panels with extra thermal and sound-proofing insulation (50 mm)
- When installed outside, unit requires rain protection (rain cover and base are supplied separately)
- Insulated controls



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# ALFA 85 - Fans

- High efficiency EC fans
- Radial fans with backward curved blades (EBM)
- Low SFP
- Silent operation
- Fluent regulation of fan speed
- Possibility to set an off-set of fans for over-pressure or under-pressure ventilation
- IP54



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SFP1,25

# ALFA 85 – Rotary heat exchanger

- High efficiency of heat recovery up to 85 %
- Humidity recovery
- Automatic control of rotation
- Double-sided seal for maximum wheel tightness
- Maximum rigidity of casing
- Step motor ensuring high reliability



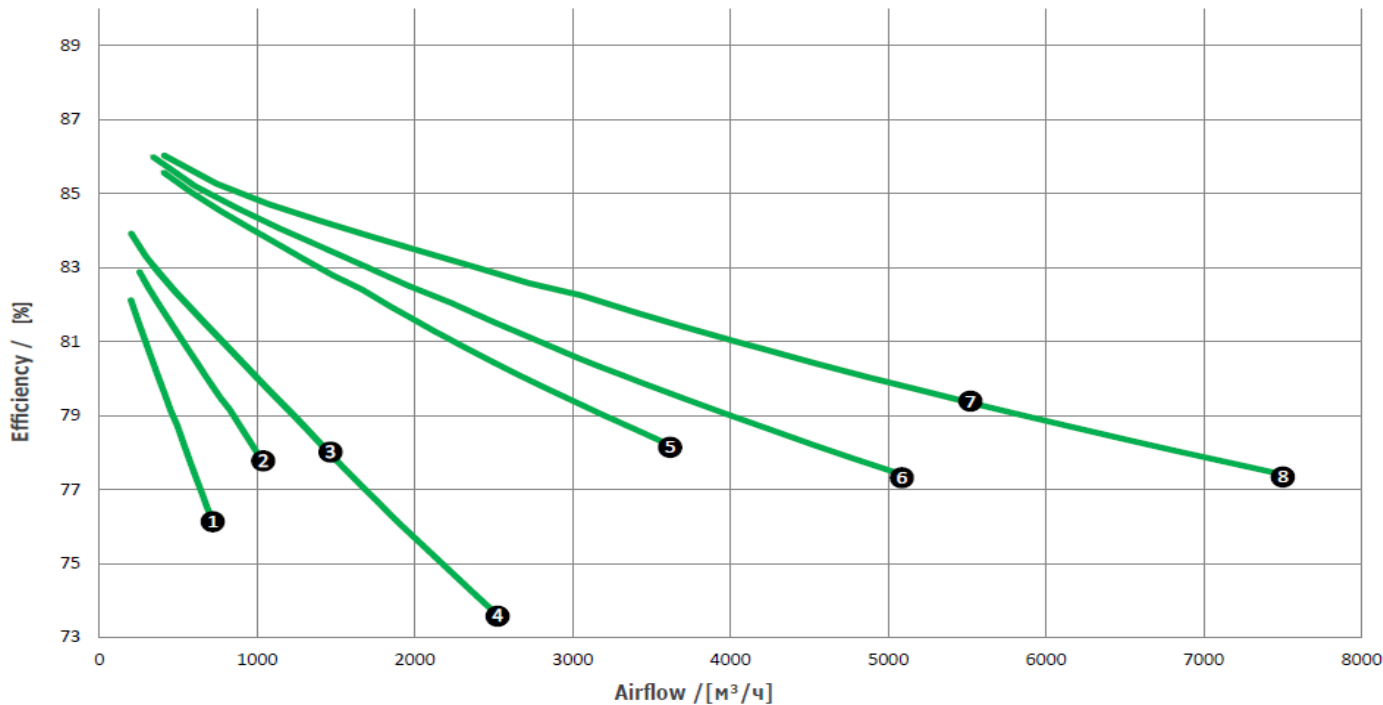
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# ALFA 85 – Rotary heat exchanger



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Heat recovery efficiency:



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2 HR85-100EC-RS-V/U

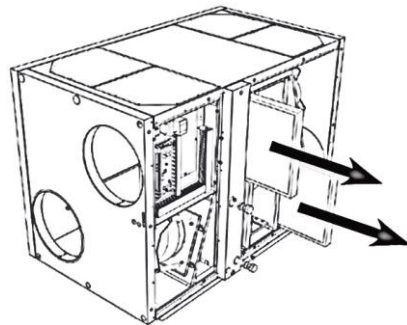
3 HR85-150EC-RS-V/U  
4 HR85-200EC-RS-V/U

5 HR85-300EC-RS-V/U  
6 HR85-450EC-RS-V/U

7 HR85-550EC-RS-V  
8 HR85-750EC-RS-V

# ALFA 85 – Filters

- Filter class M5 on inlet and outlet
- Filter class F7 available as optional accessories
- Easy exchange
- High durability
- Signalization of clogged filter on the controller
- Evaluation of filters status based on pressure difference in the whole range of air flow

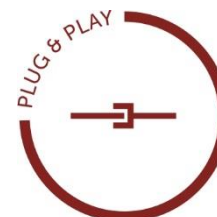


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# ALFA 85 – Controls



- Integrated sophisticated controls
- Fully equipped with temperature and pressure sensors
- 3 control options
- Universal controls for CAV, VAV and DCV regimes
- Automatic and continuous by-pass
- Antifreeze protection
- Fire-flow regime
- Freecooling, boost, time modes, fan offset , diagnostic menu, energy savings indicator

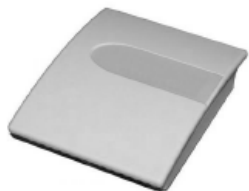


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# ALFA 85 – Controls



- Integrated time switch (week or day)
- Automatic clogged filter signalization
- Automatic detection of heating / cooling (DX, C/O)
- Boost, freecooling regimes
- Detailed service settings (PID, duct temperature, direct control, fans offset, fire flow etc.)
- CO<sub>2</sub>, RH, PIR or another 0-10V sensors



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# ALFA 85 – Anti-freeze protection



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- Automatic logic integrated in controls



- 1) Decrease of heat exchanger rotation
- 2) Shut-down of the unit\*



\* May appear out of permissible operating temperature range only



# ALFA 85 - Controller



- Modern control with colored touch-screen panel
- Easy to operate
- Faults text signalization
- Possibility to connect 2 controllers thanks to dual ModBUS



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# ALFA 85 – Other control options

- **Default controller** with touch screen
- User and service menu
- Intuitive control
  
- Connection to the central control system (BMS)
- **Modbus RTU** communication protocol



- Control via mobile device – (Android OS)
- Possibility to remote control via web interface

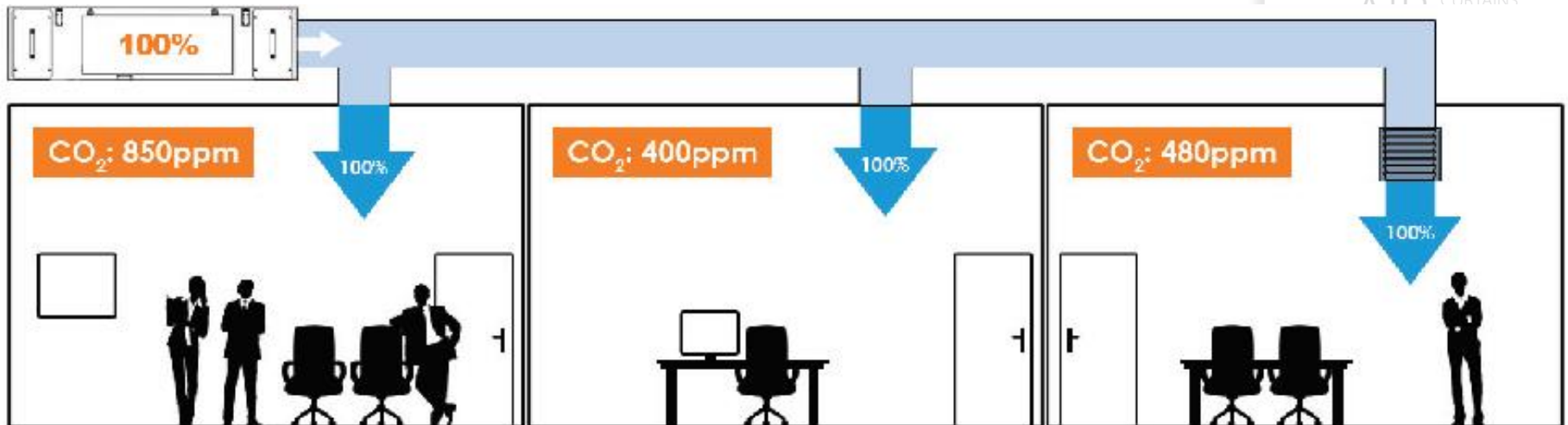


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# ALFA 85 – Monozone ventilation



- **CAV - Constant Air Volume** = means there is still the same air volume even though the pressure in the system changes



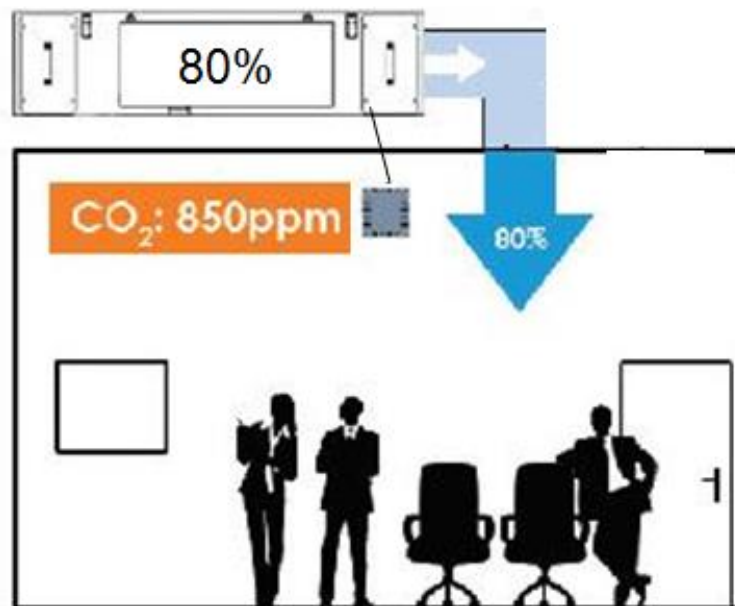
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# ALFA 85 – Monozone ventilation



- **DCV - Demand Control Ventilation** = means there is as much air volume as it is needed in the current situation according to a sensor connected directly to the unit

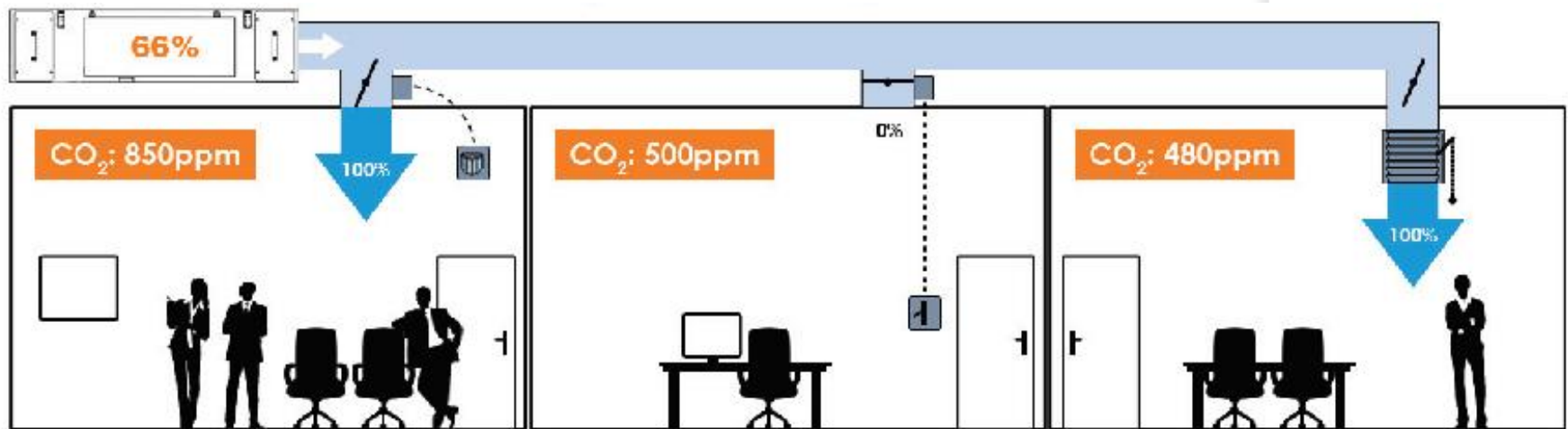


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# ALFA 85 – Multizone ventilation



- **VAV - Variable Air Volume** = means there is constant pressure in the system to supply different air volume



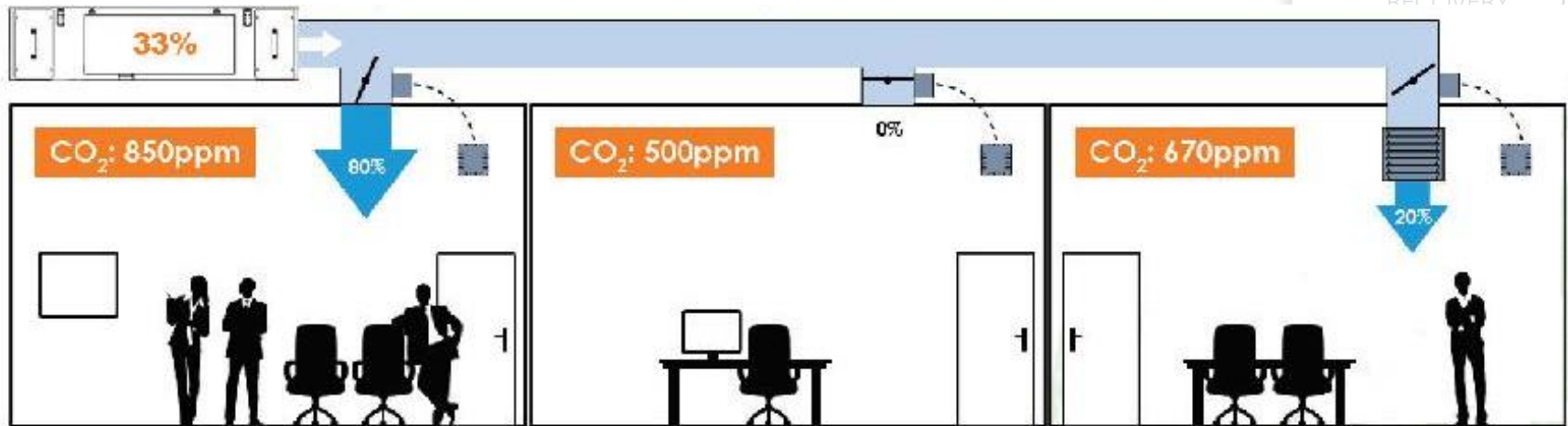
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# ALFA 85 – Multizone ventilation



- **DCV - Demand Control Ventilation** = means there is as much air volume as it is needed in the current situation according to sensors in different zones. Needs to be used with VAV boxes



Automatic regulation with lowest operating costs for ventilation

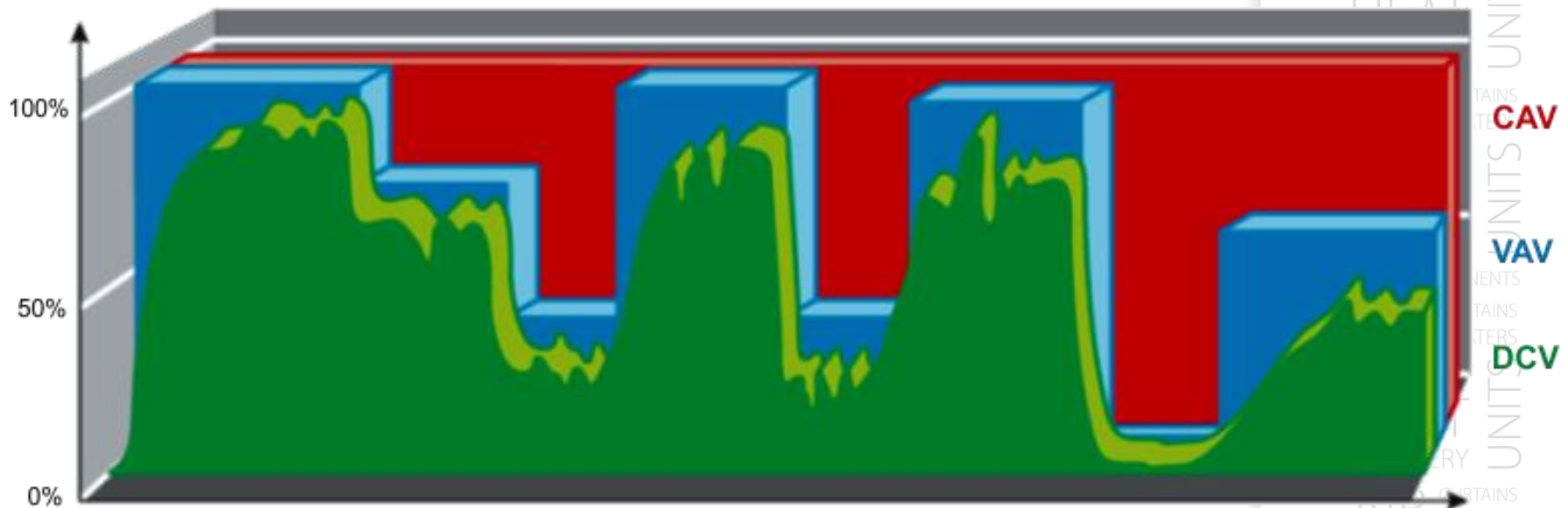
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# ALFA 85 – Regulation comparison



- Comparison of different ventilation systems – **CAV**, **VAV** and **DCV**

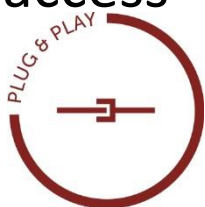


**DCV** ensures optimal air flow and react flexibly to the current demand on ventilation



# ALFA 85 – Main advantages

- Plug & Play intelligent regulation
- Efficiency of heat recovery up to 85 %
- EUROVENT certification (heat exchanger)
- Easy installation and serviceability
- Low noise level from 46,1 dB(A)
- Indoor and outdoor installation
- Wide range of positions - vertical and top access, left and right access

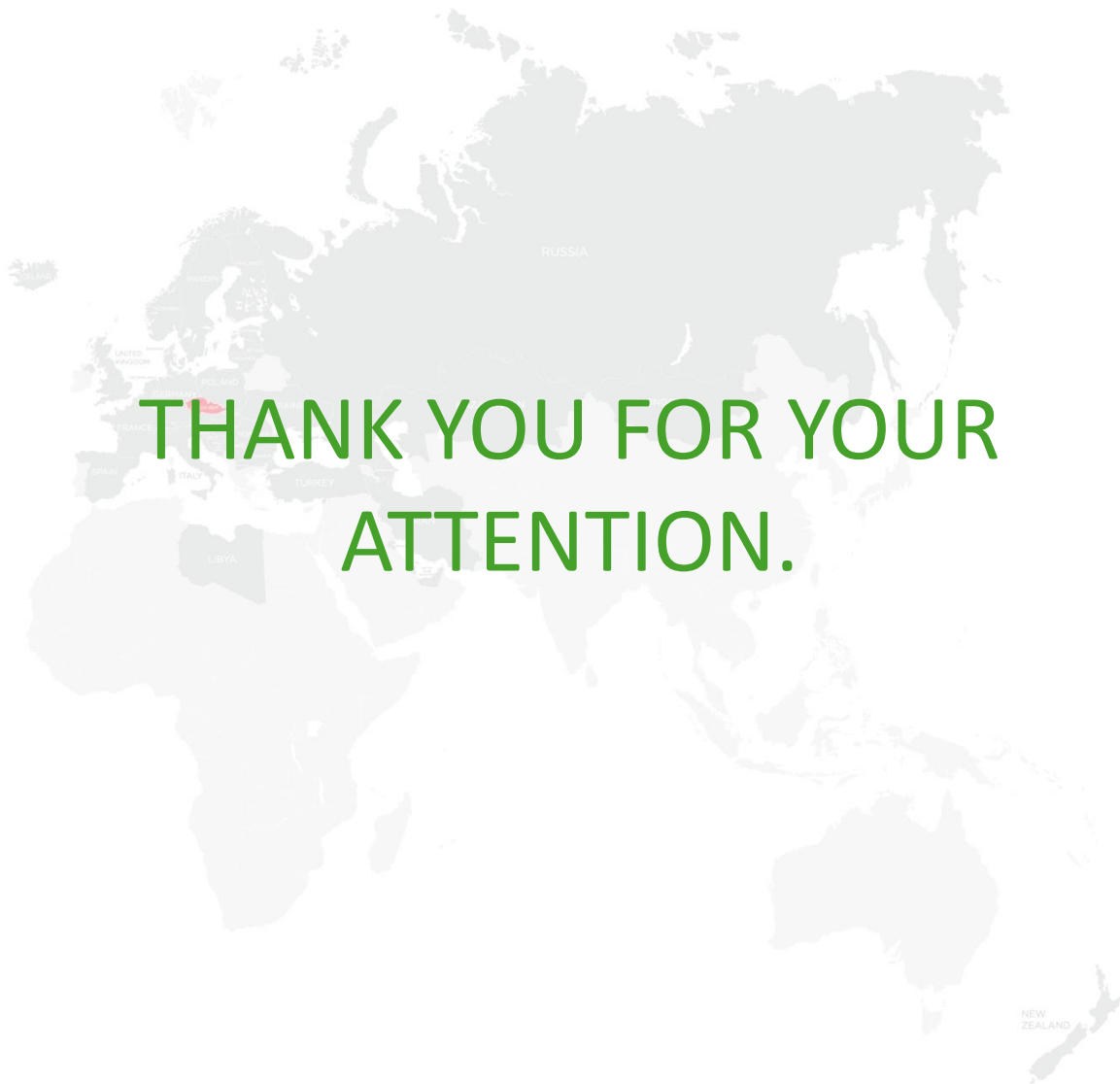


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# Technical section



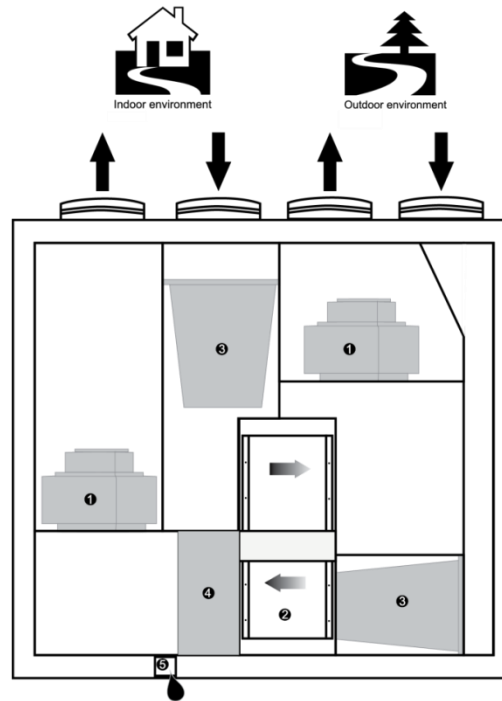
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# Main parts – ALFA 85 Top



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## Operational diagram

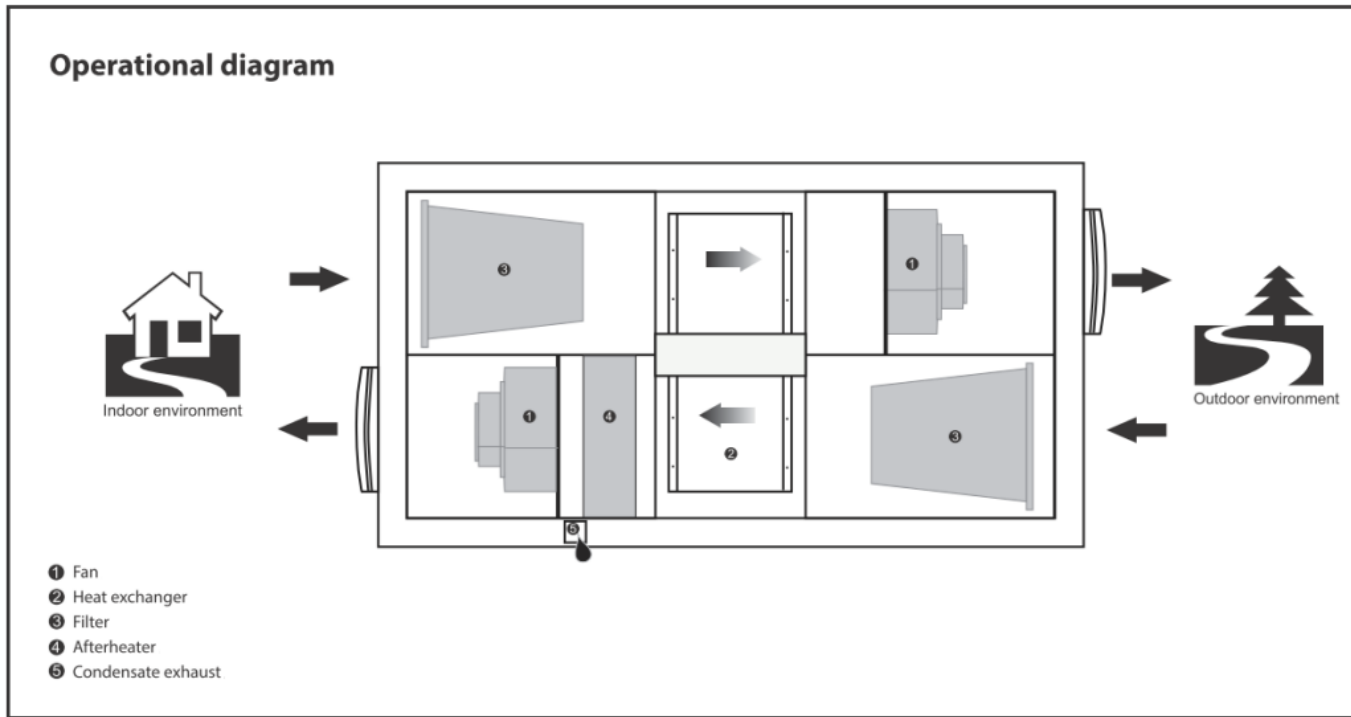


- 1 Fan
- 2 Heat exchanger
- 3 Filter
- 4 Afterheater
- 5 Condensate exhaust

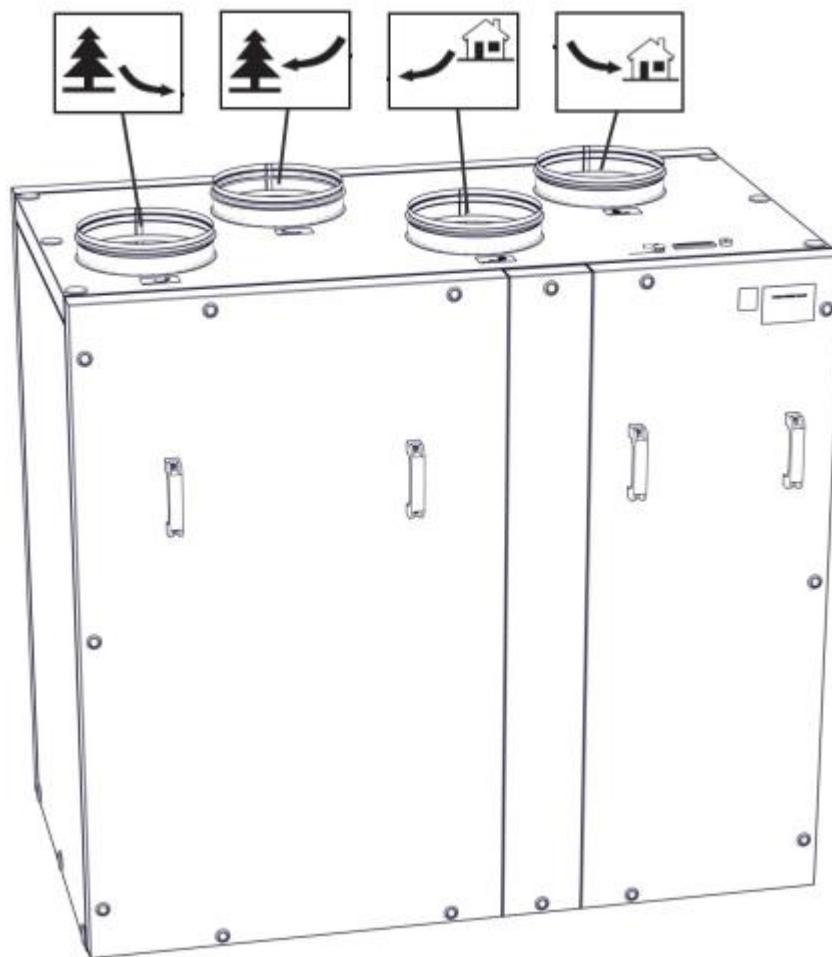
# Main parts – ALFA 85 vertical



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# Connection of air ducts – ALFA 85 Top

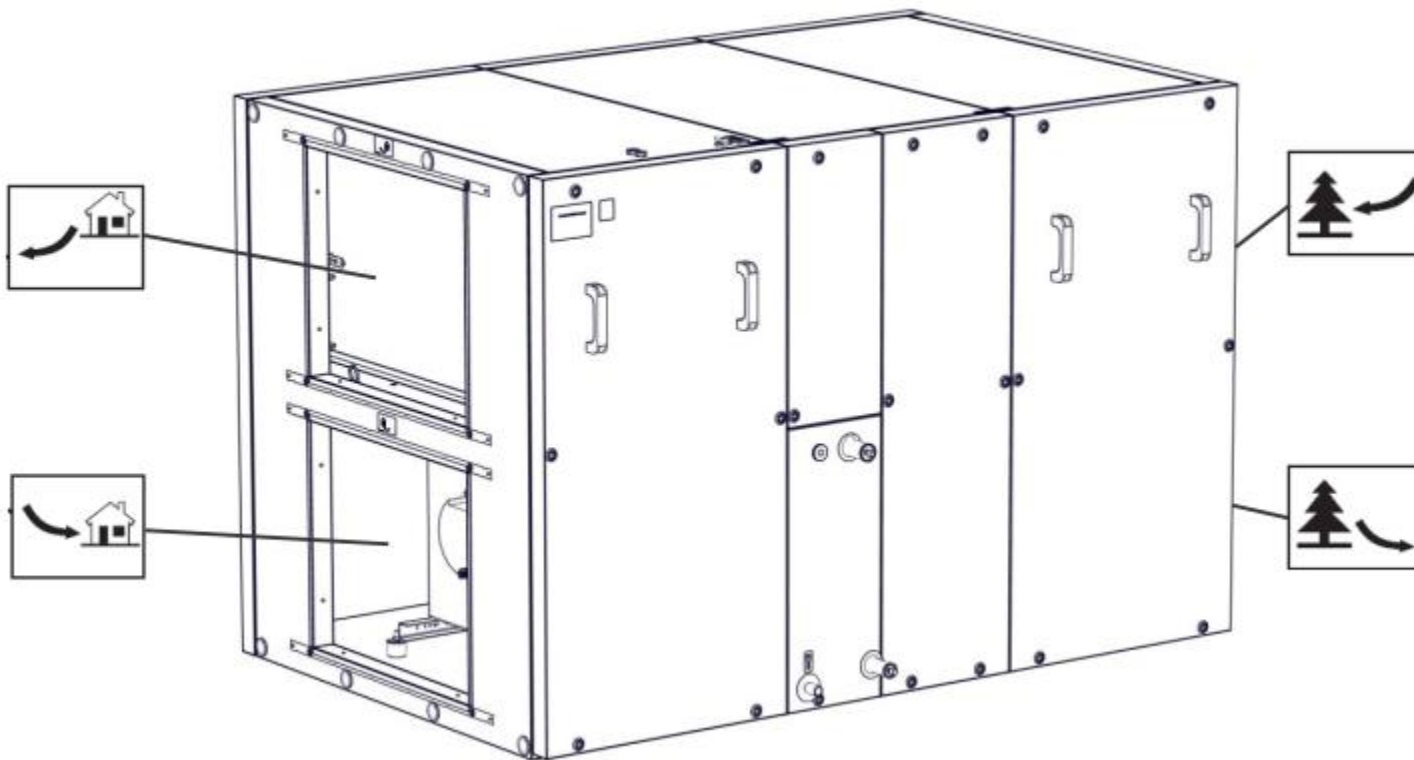


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# Connection of air ducts – ALFA 85 vertical



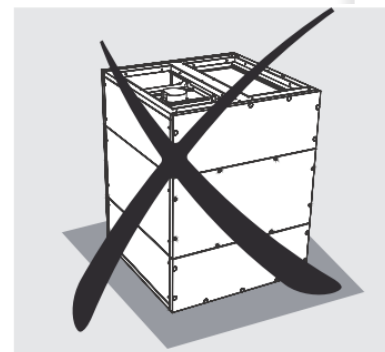
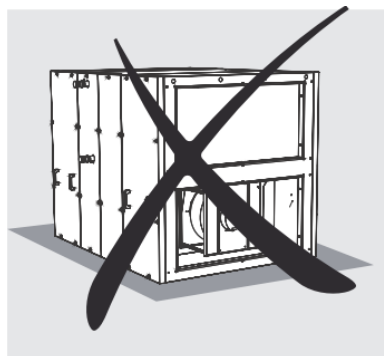
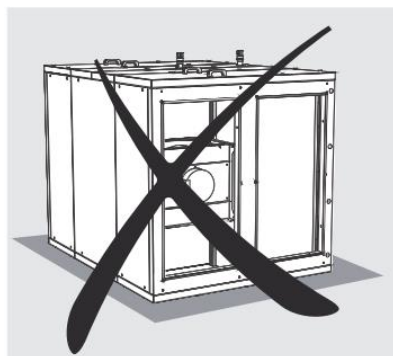
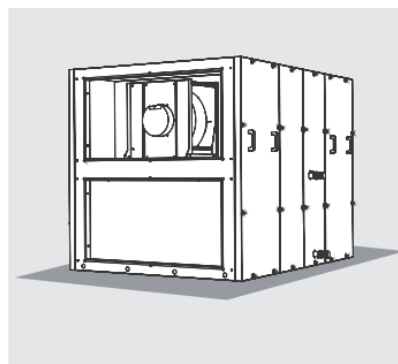
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# Permitted mounting positions



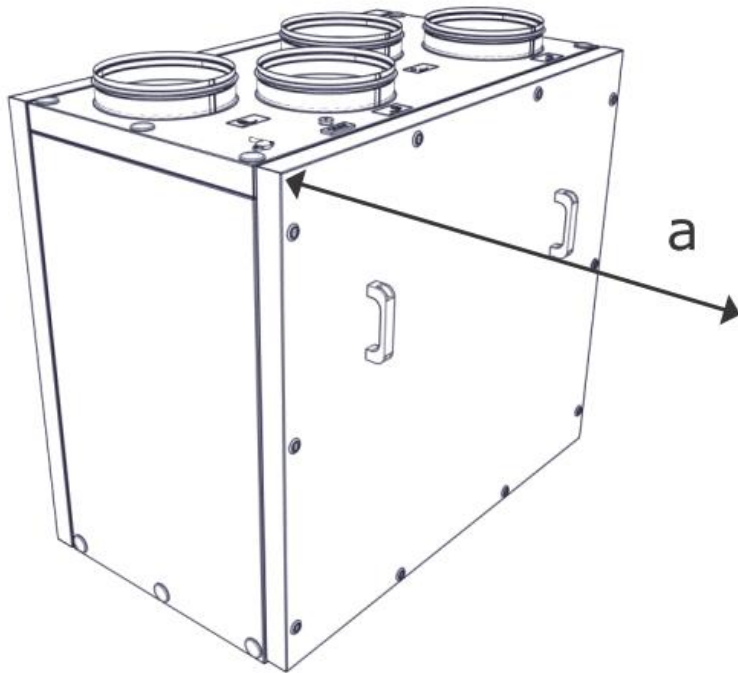
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# Access distances for servicing the unit



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HEATERS

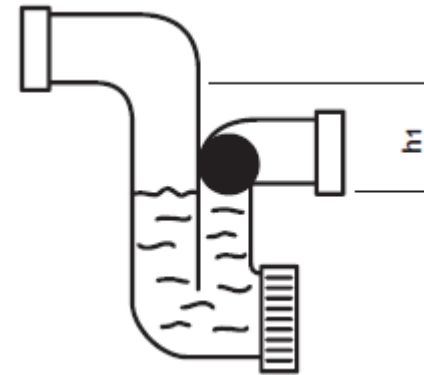
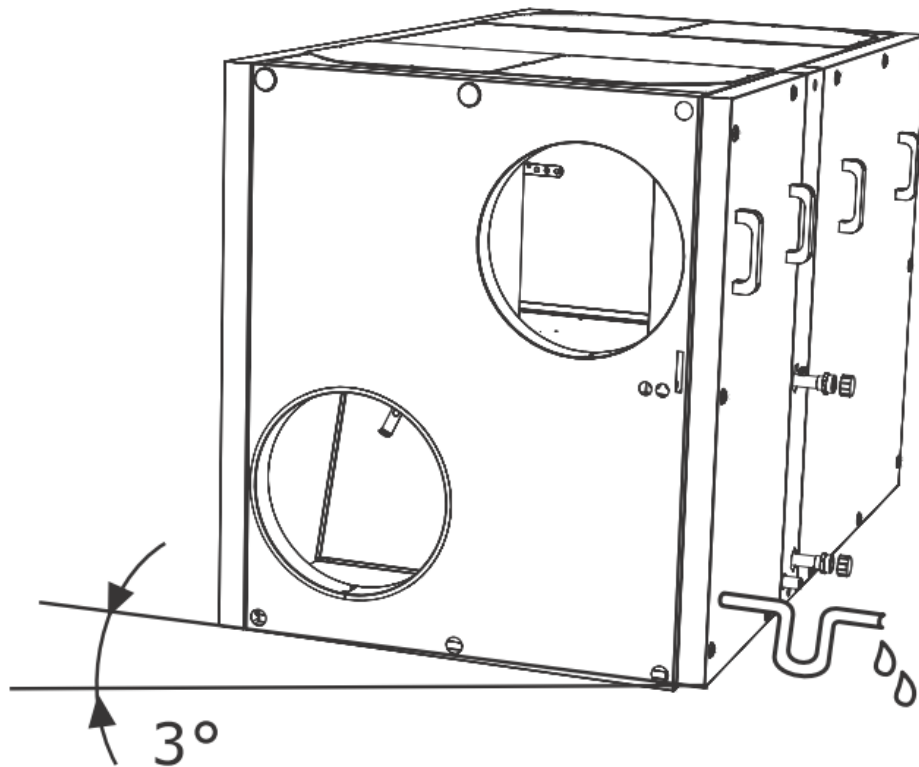


Models V/U	a
700	800
1000	800
1500	900
2000	900
3000	1200
4500	1200
5500	1500
7500	1500

HANDLING  
HEAT RECOVERY  
UNITS

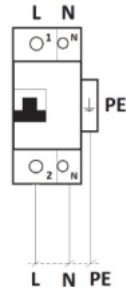
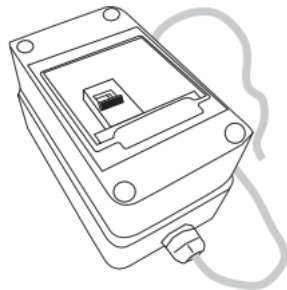
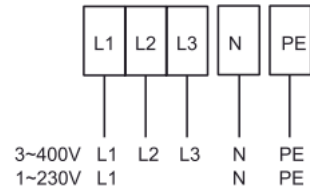
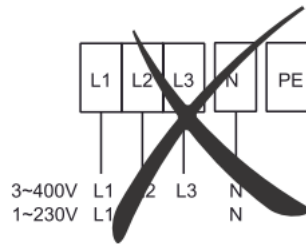


# Condensate outlet from the water/DX coil



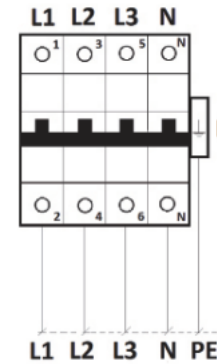
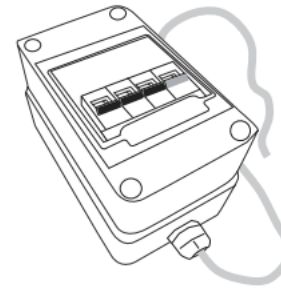
AIR HEATERS  
HANDLING  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING  
HEAT RECOVERY UNITS  
AIR CURTAINS HEATERS  
HANDLING  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING  
HEAT RECOVERY UNITS  
AIR CURTAINS HEATERS  
HANDLING  
HEAT RECOVERY UNITS

# Connecting supply cable



1p+N C 10A

3x1,5



3p+N C 10A

5x1,5

3p+N C 16A

5x2,5

3p+N C 20A

5x2,5

3p+N C 32A

5x4

3p+N C 63A

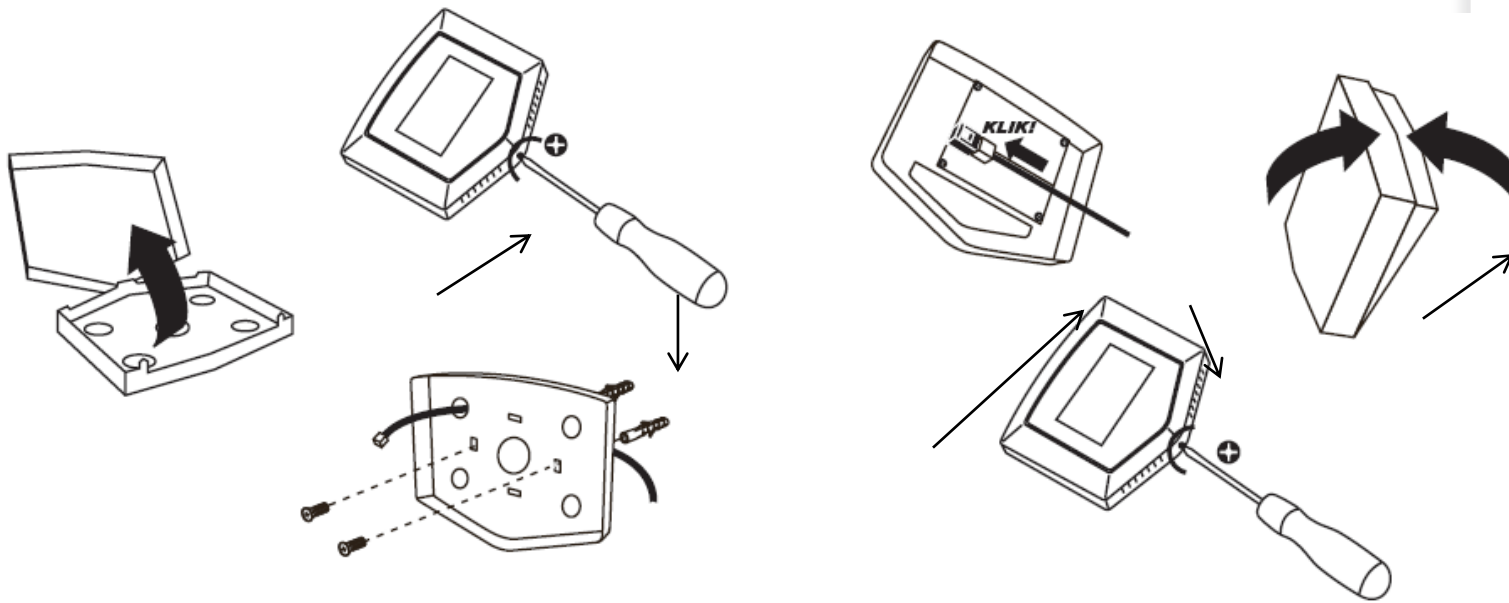
5x10

AIR HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS

# Mounting the control panel



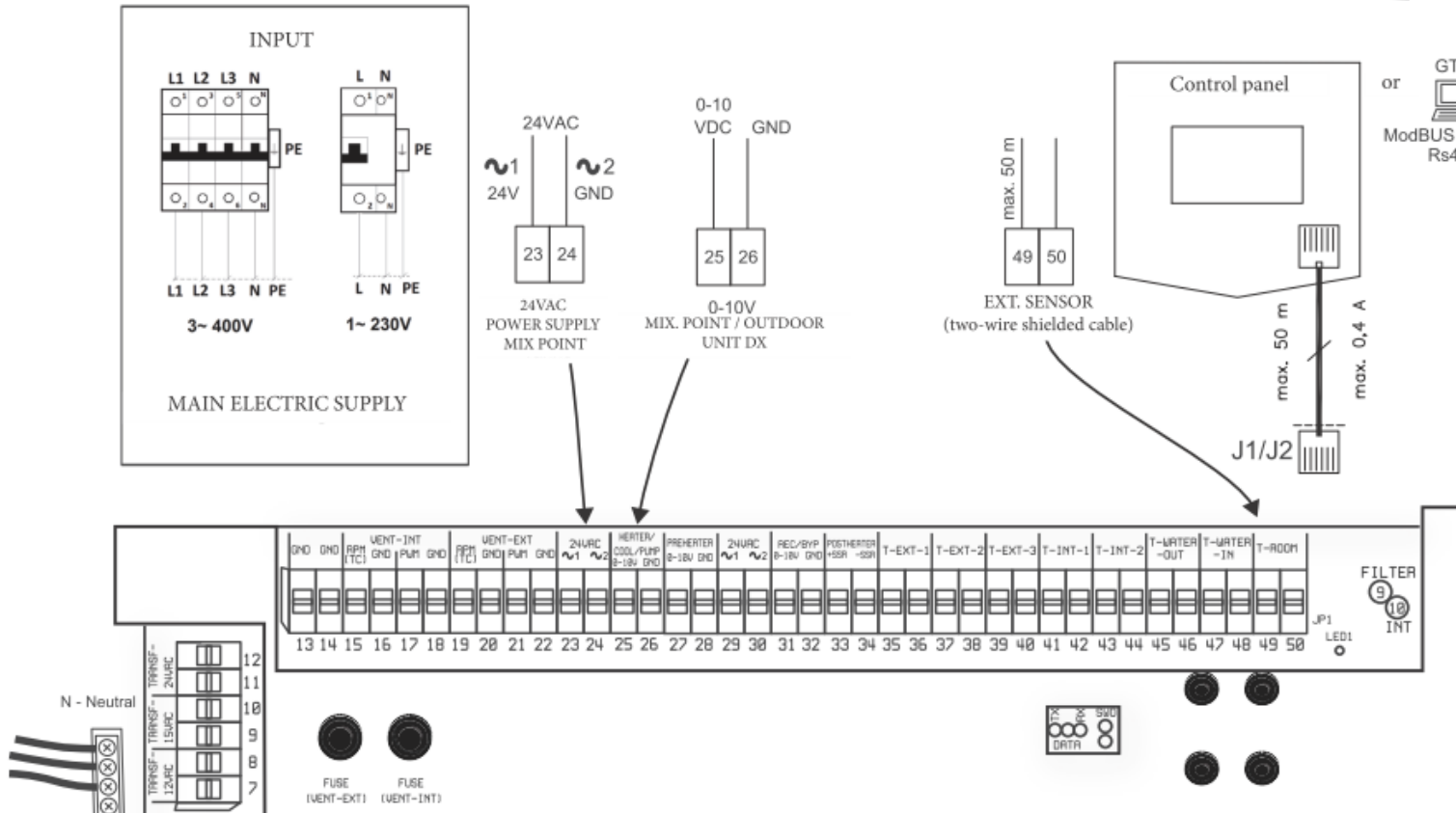
AIR HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS





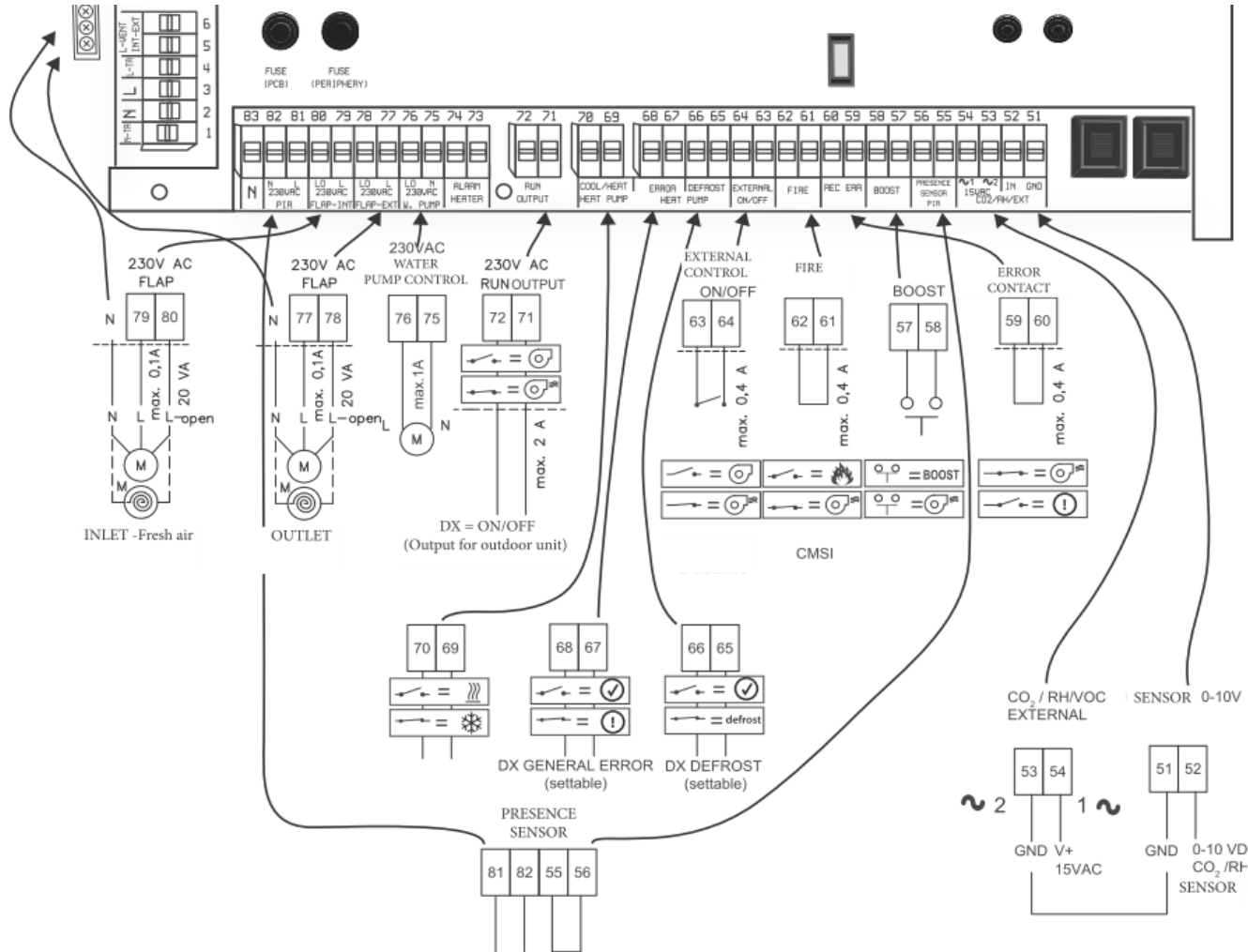
AIR HEATERS  
HANDLING  
HEAT RECOVERY  
ECO RECOVERY  
/AC COMPONENTS  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
ECO RECOVERY  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
ECO RECOVERY  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
ECO RECOVERY  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
ECO RECOVERY

or  
  
GTC  
ModBUS RTI  
Rs485





AIR HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS  
HVAC COMPONENTS  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS  
HVAC COMPONENTS  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS

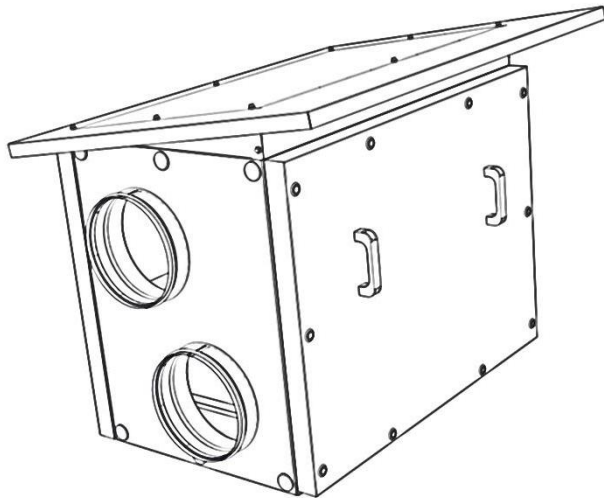


# Accessories

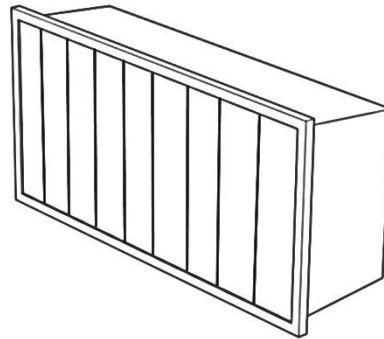


AIR HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS  
HVAC COMPONENTS  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS  
HVAC COMPONENTS  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS  
HVAC COMPONENTS  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS  
HVAC COMPONENTS  
AIR CURTAINS  
HEATERS  
HANDLING  
HEAT RECOVERY  
UNITS  
HVAC COMPONENTS

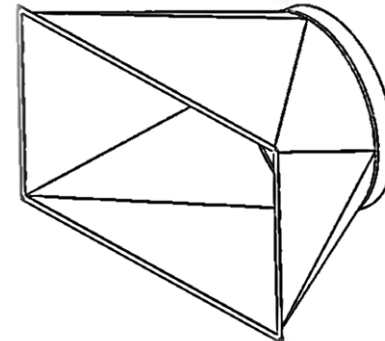
Roof



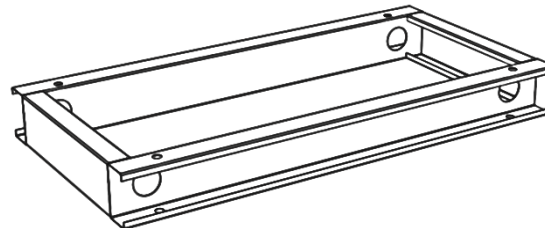
Filters



Adapter



Base



# Accessories



AIR HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS  
AIR CURTAINS HEATERS  
HANDLING UNITS  
HEAT RECOVERY UNITS  
HVAC COMPONENTS

## CO<sub>2</sub> sensors



## Duct CO<sub>2</sub> sensors



## RH sensors



## Communication cables

